

Amendments to the Claims:

Please cancel claims 30 and 46. Please amend claims 18 and 33 as follows. Please add new claims 48-53 as follows.

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1.-17. (canceled)

18. (currently amended) A fluid dispensing tip comprising
- an elongated neck;
 - a bore machined in the neck along a longitudinal axis of the neck, the bore having a cylindrical input end at an input end of the neck and a cylindrical output end at an output end of the neck, the output end of the bore having an outlet through the output end of the neck;
 - the cylindrical input end of the bore having a first inner diameter and the cylindrical output end of the bore having a second inner diameter, the first inner diameter being greater than the second inner diameter;
 - an inner taper machined in the bore between the cylindrical input end and the cylindrical output end for transitioning the inner surface of the bore from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and
 - outlet vents comprising grooves in an outer surface of the output end of the neck, the outlet vents extending radially from the outlet.
19. (original) The fluid dispensing tip of claim 18 wherein the outlet vents each comprise a V-groove having first and second inner surfaces.
20. (original) The fluid dispensing tip of claim 19 wherein the first and second inner surfaces of the V-groove intersect at an angle ranging between 45 degrees and 135 degrees.

21. (original) The fluid dispensing tip of claim 18 wherein the outlet vents are treated by a finishing process that reduces surface tension.
22. (previously presented) The fluid dispensing tip of claim 18 wherein the output end of the neck includes a relieved outer surface.
23. (previously presented) The fluid dispensing tip of claim 18 wherein the output end of the neck includes a beveled outer surface.
24. (previously presented) The fluid dispensing tip of claim 23 wherein the beveled outer surface is ground substantially along the longitudinal axis of the neck such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axis.
25. (original) The fluid dispensing tip of claim 18 wherein the vents are ground substantially along their longitudinal axes such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axes of the vents.
26. (previously presented) The fluid dispensing tip of claim 18 wherein the outlet is located at a central position of the output end of the neck.
27. (previously presented) The fluid dispensing tip of claim 18 wherein the outlet is in communication with the outlet vents.
28. (previously presented) The fluid dispensing tip of claim 18 wherein the dispensing tip is unitary.
29. (previously presented) The fluid dispensing tip of claim 28 wherein the dispensing tip is machined from stock.

30. (canceled)
31. (previously presented) The fluid dispensing tip of claim 18 wherein the neck is cylindrical.
32. (previously presented) A fluid dispensing tip comprising:
an elongated cylindrical neck;
a cylindrical opening in the neck along a longitudinal axis of the neck, the cylindrical bore having a cylindrical input end at an input end of the neck and a cylindrical output end at an output end of the neck;
the cylindrical input end of the bore having a first inner diameter and the cylindrical output end of the bore having a second inner diameter, the first inner diameter being greater than the second inner diameter;
an inner taper machined in the bore between the cylindrical input end and the cylindrical output end for transitioning the inner surface of the bore from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and
outlet vents at the output end of the neck, the outlet vents extending radially from the fluid path, wherein the vents are ground substantially along their longitudinal axes such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axes of the vents.
33. (currently amended) A fluid dispensing tip comprising:
an elongated neck;
an elongated fluid path in the neck along a longitudinal axis of the neck, the fluid path having an input at an input end of the neck and an output at an output end of the neck, the output of the fluid path having an outlet that passes through the output end of the neck;
the input of the fluid path having a first inner diameter and the output of the fluid

path having a second inner diameter, the first inner diameter being greater than the second inner diameter;

an inner taper in the fluid path between the input and the output of the fluid path for transitioning the inner surface of the fluid path from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and

outlet vents comprising grooves in an outer surface of the output end of the neck, the outlet vents extending radially from the outlet of the fluid path, wherein the dispensing tip is unitary between the input end of the neck and the output end of the neck.

34. (previously presented) The fluid dispensing tip of claim 33 wherein the fluid path input is circular in cross section and wherein the fluid path output is circular in cross section.
35. (previously presented) The fluid dispensing tip of claim 33 wherein the fluid path input is cylindrical in cross section and wherein the fluid path output is cylindrical in cross section.
36. (previously presented) The fluid dispensing tip of claim 33 wherein the outlet vents each comprise a V-groove having first and second inner surfaces.
37. (previously presented) The fluid dispensing tip of claim 36 wherein the first and second inner surfaces of the V-groove intersect at an angle ranging between 45 degrees and 135 degrees.
38. (previously presented) The fluid dispensing tip of claim 33 wherein the outlet vents are treated by a finishing process that reduces surface tension.
39. (previously presented) The fluid dispensing tip of claim 33 wherein the output end of the neck includes a relieved outer surface.

40. (previously presented) The fluid dispensing tip of claim 33 wherein the output end of the neck includes a beveled outer surface.
41. (previously presented) The fluid dispensing tip of claim 40 wherein the beveled outer surface bevel is ground substantially along the longitudinal axis of the neck such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axis.
42. (previously presented) The fluid dispensing tip of claim 33 wherein the vents are ground substantially along their longitudinal axes such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axes of the vents.
43. (previously presented) The fluid dispensing tip of claim 33 wherein the outlet is located at a central position of the output end of the neck.
44. (previously presented) The fluid dispensing tip of claim 33 wherein the outlet is in communication with the outlet vents.
45. (previously presented) The fluid dispensing tip of claim 33 wherein the dispensing tip is machined from stock.
46. (canceled)
47. (previously presented) The fluid dispensing tip of claim 33 wherein the neck is cylindrical.
48. (new) A fluid dispensing tip comprising
an elongated neck;
a bore machined in the neck along a longitudinal axis of the neck, the bore having a cylindrical input end at an input end of the neck and a cylindrical output end at an

output end of the neck, the output end of the bore having an outlet through the output end of the neck;

the cylindrical input end of the bore having a first inner diameter and the cylindrical output end of the bore having a second inner diameter, the first inner diameter being greater than the second inner diameter;

an inner taper machined in the bore between the cylindrical input end and the cylindrical output end for transitioning the inner surface of the bore from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and

outlet vents in the output end of the neck, the outlet vents extending radially from the outlet, the outlet vents each comprising a V-groove having first and second inner surfaces

49. (new) The fluid dispensing tip of claim 48 wherein the first and second inner surfaces of the V-groove intersect at an angle ranging between 45 degrees and 135 degrees.

50. (new) A fluid dispensing tip comprising

an elongated neck;

a bore machined in the neck along a longitudinal axis of the neck, the bore having a cylindrical input end at an input end of the neck and a cylindrical output end at an output end of the neck, the output end of the bore having an outlet through the output end of the neck;

the cylindrical input end of the bore having a first inner diameter and the cylindrical output end of the bore having a second inner diameter, the first inner diameter being greater than the second inner diameter;

an inner taper machined in the bore between the cylindrical input end and the cylindrical output end for transitioning the inner surface of the bore from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and

outlet vents in the output end of the neck, the outlet vents extending radially from the outlet, wherein the vents are ground substantially along longitudinal axes of the vents such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axes of the vents.

51. (new) A fluid dispensing tip comprising:

an elongated neck;

an elongated fluid path in the neck along a longitudinal axis of the neck, the fluid path having an input at an input end of the neck and an output at an output end of the neck, the output of the fluid path having an outlet that passes through the output end of the neck;

the input of the fluid path having a first inner diameter and the output of the fluid path having a second inner diameter, the first inner diameter being greater than the second inner diameter;

an inner taper in the fluid path between the input and the output of the fluid path for transitioning the inner surface of the fluid path from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and

outlet vents in the output end of the neck, the outlet vents extending radially from the outlet of the fluid path, the outlet vents each comprising a V-groove having first and second inner surfaces, wherein the dispensing tip is unitary between the input end of the neck and the output end of the neck.

52. (new) The fluid dispensing tip of claim 51 wherein the first and second inner surfaces of the V-groove intersect at an angle ranging between 45 degrees and 135 degrees.

53. (new) A fluid dispensing tip comprising:

an elongated neck;

an elongated fluid path in the neck along a longitudinal axis of the neck, the fluid path having an input at an input end of the neck and an output at an output end of the

neck, the output of the fluid path having an outlet that passes through the output end of the neck;

the input of the fluid path having a first inner diameter and the output of the fluid path having a second inner diameter, the first inner diameter being greater than the second inner diameter;

an inner taper in the fluid path between the input and the output of the fluid path for transitioning the inner surface of the fluid path from the first inner diameter to the second inner diameter, the inner taper being proximal to the output end of the neck; and

outlet vents in the output end of the neck, the outlet vents extending radially from the outlet of the fluid path, wherein the vents are ground substantially along longitudinal axes of the vents such that any tooling marks resulting therefrom are substantially aligned with the longitudinal axes of the vents, and wherein the dispensing tip is unitary between the input end of the neck and the output end of the neck.